

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Cost-Plus-Fixed-Fee		Page 1 Of 4	
2. Amendment/Modification No. 32		3. Effective Date 2002DEC19		4. Requisition/Purchase Req No. SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM-ROCK ISLAND AMSTA-LC-CAC-B ROCK WOODSTOCK (309)782-7237 ROCK ISLAND IL 61299-7630 EMAIL: WOODSTOCKR@RIA.ARMY.MIL		Code W52H09		7. Administered By (If other than Item 6) DCMA BIRMINGHAM BURGER PHILLIPS CENTER 1910 3RD AVE NORTH ROOM 201 BIRMINGHAM AL 35203-2376 SCD A PAS NONE ADP PT HQ0338			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) PEI ELECTRONICS INC 110 WYNN DRIVE HUNTSVILLE AL 35807-0929 TYPE BUSINESS: Large Business Performing in U.S. Code 24290 Facility Code				<input type="checkbox"/> 9A. Amendment Of Solicitation No.			
				<input type="checkbox"/> 9B. Dated (See Item 11)			
				<input checked="" type="checkbox"/> 10A. Modification Of Contract/Order No. DAAE20-98-G-0004/0030			
				<input type="checkbox"/> 10B. Dated (See Item 13) 2000SEP25			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) NO CHANGE TO OBLIGATION DATA							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS It Modifies The Contract/Order No. As Described In Item 14.							
KIND MOD CODE: G							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: FAR 43 103(a)							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE SECOND PAGE FOR DESCRIPTION							
<div>Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.</div>							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) SUZANNE C. YACKLEY YACKLEYS@RIA.ARMY.MIL (309)782-1466			
15B. Contractor/Offeror _____ (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed 2002DEC19	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

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SECTION A - SUPPLEMENTAL INFORMATION

1. This modification changes the SOW associated with CMED (Item 1) and recognizes GFE property transfer (Item 2):

(Item 1) IAW PM Bradley direction, this modification revises the terms and conditions that define performance under CLINs 0017AA, 0017AB, 0017AC & 0017AD. This change is defined as the addition of element #20 to the following Scope Of Work (SOW):

The following Terms and Conditions apply to the proposed contract line item under the Systems Technical Support contract for the development of a Digital Vehicle Distribution Box and its Test Program for the Bradley A3. These Terms and Conditions also apply to the Drivers Display Panel and Drivers Tactical Display.

1. Detailed deliverable documentation will be limited to performance specifications; however, detailed manufacturing information can be made available to all IPT members, subject to reciprocal agreements. The guidelines to be used are as follows:

By direction from the PM, this program seeks to minimize the cost overhead associated with traditional documentation methods. PEI will prepare its normal documentation products, however, certain exceptions to our standard STS practices will be applied to this contract. PEI will utilize DOD-STD00100D (AR) as a guide for the documentation products, with the following exceptions:

- A. Performance specifications, ICDs, Software Source Code, and selected other products, as identified on the accompanying drawing tree, will be the only items that are deliverables for the contract.
- B. Other documentation to support the manufacture and assembly of items covered by a performance specification may be prepared in the TACOM drawing format using numbers assigned through UDLP. However, such documentation will not be deliverable and will utilize the most expedient part number without seeking to generate SoCDs not SCDs for the parts listing. Military numbers will be used if appropriate and available but the commercial/industrial part number will be adequate for this contract. This documentation will be suitable and available for use in a limited competitive procurement.
- C. In general, drawings will be prepared using TACOMs cage code, with the understanding that PEI will not ERR these drawings not will non-deliverable drawings be finished and ready for submission. Deliverable documentation will be provided to the Government no later than 31 Dec 2003.
- D. PEI shall make available documentation necessary for provisioning of spares.
- E. PEI will not modify nor re-document Non-Development Items (NDI) that are utilized and /or directed to be used on this program, regardless of who the actual manufacturer may be. The only documentation supplied will be the manufacturers standard documentation.

2. The new design target for Environmental Specifications for circuit card assemblies will be -46 degrees centigrade to +85 degrees centigrade for operation when installed. The DVDB new design target operating range will be -46 degrees centigrade to +71 degrees centigrade; however, the high temperature operation at +71 degrees centigrade will not be continuous and will have a time/temperature profile. PM Bradley and PEI are working to find a profile satisfactory to the customer. The new design target Storage Temperature will be -51 degrees C to +71 degrees C. In all cases, the Non-Development Items that have been directed to be used for this program will only be required to meet their own design specifications. The Government PMs are responsible for resolving any requirement differences for common use between vehicles and programs.

3. The prototype hardware to be developed is 2 DVDBs and 2 complete card sets for the PEI laboratory to do testing and integration, 3 each DDPs and 2 complete sets of harnesses and mounting hardware needed for vehicle integration.

4. Full capability Phase I implementation will include qualification of one (1) set of BFVS A3 equipment.

5. Road testing support as part of the other Block Mod Testing for 1 BFVS is bid and scheduled to occur following both qualification and delivery of documentation, as described in 1 above.

6. The estimate includes Purchased Services from proposed team members at the approximate burdened values of \$73,000 for CDC and \$800,000 for UDLP. These are estimates and final amounts may vary following negotiations.

7. A fieldable DVDB (only) DSESTS TPS will be designed but no hardware sets will be delivered under this contract. TPS development shall be reduced or stopped. The goal is to eventually eliminate all DSESTS and their TPSs by using built in diagnostics.

8. The System Segment Specifications will be revised to incorporate these added requirements presented for approval and accepted as the formal requirements documents.

9. PEI will support the vehicle prime contractor by supply inputs and LSA/TM source material in accordance with the programs schedule.

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10. The contractor shall conduct a feasibility study for converting the DVDB design to a System on a Chip (SOC) Technology to include the costs (recurring and non-recurring) and schedule estimates. An implementation plan shall be submitted to the Government for approval within 60 days of receipt of funding.
 11. The contractor shall conduct a study of the video re-architecture that will provide CIV, IBAS, TPUII and DVE videos to the Drivers Display and the Squad Leaders Display. Concept with cost (recurring and non-recurring) and schedule shall be provided for approval.
 12. Current HPU functionality (hardware and software) as it exists in the A3 Bradley and A3 BFIST shall be incorporated into the DVDB.
 13. The Environmental Qualification Testing of the DVDB shall be deferred until further notice.
 14. The CEDB design shall be deferred until further notice.
 15. UDLP has proposed an Auxillary Power Unit (APU) for the Bradley Fighting Vehicle System (BFVS). If approved for implementation, diagnostics for this APU will be incorporated into the DVDB as appropriate.
 16. If the decision to implement SOC is made, excess material shall be returned to the vendors if practical.
 17. The prototype hardware to be built is as follows: 2 each DVDB, 3 each DDPs and 2 complete sets of cards for our lab to do testing and integration. Also to be built are tow completed sets of hardnesses and mounting hardwares needed for vehicle integration.
 18. Perform a feasibility study for the implementation of the DVDB into A2 ODS vehicle. The study should include options, schedule, costs (recurring and non-recurring_ and achievable commonality.
 19. PEI is authorized to transfer excess material out of the CM/ED project and recover that cost for the project. Specifically, based on redirection that eliminated the CEDB, PEI has eight (8) processors and some components which will not be required. PEI has an alternate use for these items which will be used to reimburse CM/ED.
 20. IEDB Scope: Improved Electrical Distribution Box (IEDB) effort: Provide engineering assistance, not to exceed 100 hours, to review UDLP's solutions and provide comments or additional recommendations to resolve two technical problems. One problem is the generator light blinking intermittently. The other problem is the DCCA Electronic Circuit Breaker tripping during start of vehicle.
- (Item 2) This modification recognizes the transfer of Government Furnished Equipmwnt (GFE) from contract DAAE07-97-C-X001 to DAAE20-98-G-0004/ Delivery Order 0030 as detailed in Attachment 007 identified in this modification.

All other terms and conditions remain unchanged.

*** END OF NARRATIVE A 035 ***

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SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Attachment 007	GFE ASSET DESCRIPTION	17-DEC-2002	001	DATA